







LANXESS Switzerland GmbH

Reference: Priyo International



To Whom it may concern,

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With this letter, I confirm Priyo International is our Partner and is allow to sell our Preventol™ O Extra product in any country in MENA & ASIA, as well in the USA.

Should you have any question, please do not hesitate to contact me at the details mentioned above.

Yours sincerely,

Angel Lanchas

EMEA Head of Sales, MS Actives

Angel Lanchas

LANXESS Switzerland GmbH

July 28th, 2022

LANXESS Switzerland GmbH

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QUALITY PERFORMS.



Disinfection energized by LANXESS

Powerful active substances for effective disinfection



QUALITY WORKS.



LANXESS PREVENTOL® PHENOLIC PRODUCTS FOR EFFECTIVE DISINFECTION

Numerous phenolic derivatives are generated in nature. They can be found in almost every plant – e.g. thymol in thyme, tannin as protection against herbivores or quercetin, a natural antioxidant. Phenolic derivatives protect plants against bacteria and fungi. Therefore, they serve as a natural role model for the industrial use of phenolic derivatives.

Preventol® for heavy-duty surface disinfection

Modern phenolic active substances, such as Preventol® CMK and Preventol® O extra are an excellent choice for surface disinfection in a variety of fields, such as hospitals, doctors' offices, retirement homes, (medical) instruments, hotels, public institutions and industrial surfaces.





Disinfectants based on LANXESS active substances offer decisive advantages: they have broad spectrum efficacy against bacteria, fungi, and enveloped viruses; they are effective against *Mycobacterium tuberculosis*; and they provide reliable disinfection even in the presence of organic matter such as dirt, blood and sputum.

Effective and environmentally sound

LANXESS phenolic active substances have been scientifically developed to provide favourable toxicity and ecotoxicity profiles. Preventol® CMK and Preventol® O extra are successfully used as active substances in effective disinfectants. Chemical identities and biodegradability of LANXESS products are summarised in table 1.

LANXESS phenolic derivatives are not only an excellent choice for surface disinfection in hospital, industrial and institutional areas, they are also used for veterinary disinfection.

LANXESS takes care for obtaining necessary approvals and registrations and provides necessary support to customers as well as technical and R&D support.



Table 1: Preventol® CMK and Preventol® O extra: chemical identities and biodegradability

Name	Preventol® CMK	Preventol® O extra
Appearance		
Chemical structure	OH CH ₃	ОН
Chemistry	<i>p</i> -chloro- <i>m</i> -cresol	o-phenylphenol
Synonyms	Chlorocresol, 4-chloro-3-methylphenol	2-phenylphenol, biphenyl-2-ol
CAS number	59-50-7	90-43-7
Active substance	Min. 99.8%	Min. 99.5%
Melting point	63-65 °C	≥ 56 °C
Biodegradability	Readily biodegradable	Readily biodegradable

Our active substances have been used for many years all over the world, due to their safety profile and strong efficacy performance.

Combining Preventol® CMK and Preventol® O extra achieves a broader spectrum of activity, whilst at the same time keeping required concentration rates, and cost, as low as possible.

Preventol® phenolic products show several advantages in disinfection applications:

- Broad spectrum efficacy against bacteria, fungi and enveloped viruses
- Proven efficacy against *Mycobacterium tuberculosis*
- Less likely to lead to the development of acquired resistance when compared with certain other disinfectant formulations (when used as recommended)
- Reliable performance in the presence of organic matter
- Favourable toxicity and ecotoxicity profiles
- Widely accepted worldwide by competent authorities & registration departments

- Excellent disinfectant performance and stability over a wide pH range
- Outstanding compatibility with anionic detergents additional cleaning power
- Excellent performance at low temperatures
- Long product shelf-life
- Can be readily formulated with other active substances, e.g. other phenolics, glutaraldehyde, pine oil, alcohols and organic acids.

LANXESS PREVENTOL® PRODUCTS DIFFER SUBSTANTIALLY FROM PHENOL

Why are Preventol® phenolic actives sometimes confused with phenol?

Phenolic derivatives, such as Preventol® CMK and Preventol® O extra were developed to replace phenol due to its toxicity profile and to achieve better efficacy. Despite the similar-sounding name, LANXESS phenolic products differ substantially from phenols. They have a different molecular structure and different characteristics.

The main advantages of Preventol® CMK and Preventol® O extra over phenol are:

- Better toxicity profile
- Broad spectrum efficacy
- Approved in many countries and well accepted for disinfection use

A shown in table 2, phenol is acutely more toxic than Preventol® CMK and Preventol® O extra, which are not classified at all or are in low toxicity classes only.

Preventol® CMK and Preventol® O extra are synthesised on a large scale for industrial applications, such as disinfection and material protection. LANXESS products are well studied and a large amount of data is available for disinfection applications. Preventol® CMK and Preventol® O extra are successfully used for disinfection applications in different regions all over the world.

Table 2: Comparison of human toxicity classification (acc. to EU CLP Regulation) of our Preventol® products and phenol

	Acute Toxicity Category and Hazard statement			Further To	—— Hazard		
அubstance	Oral	Dermal	Inhalation	Mutagenicity	Specific Target Organ Toxicity (STOT) – Repeated Exposure	Other Hazards	symbol
Phenol	Toxic H301	Toxic H311	Toxic H331	Suspected of causing genetic defects H341	STOT RE 2 H373	Skin Corr.1B H:	314
Preventol® CMK (p-chloro-m-cresol)¹	Harmful H302	No classification to apply	No classification to apply	No classification to apply	No classification to apply	Skin Corr. 1C H: Eye Dam.1 H:	335 314 318 317
Preventol® O extra (o-phenylphenol)	No classification to apply	No classification to apply	No classification to apply	No classification to apply	No classification to apply	Skin Irrit 2 H	335 315 319

^{1:} Acc. to new classification for the substance, 13th ATP ((EU) 2018/1480) to CLP (EC) No. 1272/2008

H301: Toxic if swallowed; H302: Harmful if swallowed; H311: Toxic in contact to skin; H314: Causes severe skin burns and eye damage. (Corrosive in > 1 of 3 animals; Category 1B: in >3 minutes - ≤ 1hour. Category 1C: in > 1 hour - ≤ 4 hours.); H315: Causes skin irritation; H317: May cause an allergic skin reaction; H318: Causes serious eye damage; H319: Causes serious eye irritation; H331: Toxic if inhaled; H335: May cause respiratory irritation; H373: May cause damage to organs; H341: Suspected of causing genetic defects

- Phenolic disinfectant actives are toxicologically safe when dosed as per the recommended manufacturers instructions.
- Phenolic active substances are non irritating to skin in ready-to-use concentrations below 1%.

BROAD SPECTRUM EFFICACY-



IN THE PRESENCE OF ORGANIC MATTER

The choice of a highly effective disinfectant is crucial to effectively control contamination and reduce the transmission of pathogenic germs.



LANXESS Preventol® products are perfectly suited for heavy-duty surface disinfection:

- Broad efficacy against bacteria, fungi and enveloped viruses, especially effective against Mycobacterium tuberculosis
- Reliable under difficult conditions
 - Effective in the presence of dirt, blood or sputum
 - Not impacted by hard water
- Quick reaction rate

Table 3 shows the antimicrobial efficacy, reaction rate and environmental influence on the efficacy of LANXESS Preventol® products, compared to common active substances for disinfection applications.

Table 3: Antimicrobial efficacy of various disinfectant active substances

		Gram	+ bacteria					
	Reaction rate	Vegetative forms	Mycobacteria	Spores	Gram – bacteria	Fungi	Viruses	Influence of environment on efficacy
Preventol® phenolics	fast							low
Quats	slow							high
Glutaraldehyde	fast							high
Alcohols	fast							low
Peracetic acid	fast							high
Formaldehyde	slow							high
lodine	fast							high
Guanidines	fast							high

MEETING THE EUROPEAN STANDARD FOR SURFACE DISINFECTANTS

To demonstrate the efficacy of our active substances, Preventol® CMK and Preventol® O extra, representative standard formulation (SF-CMK or SF-OPP) containing 10% active substances were developed and tested using the

European standards EN 1276, EN 1650, EN 136 EN 14348. The standard formulations were only de to illustrate the efficacy of our active substances and products are not available in the market.

Table 4: Effective concentrations² [%] of CMK with using European standard EN 1276, EN 1650, EN 13697 and EN 14348 under clean conditions.

Test ergenisms	Effective concentration [%]					
Test organisms	EN 1276	EN 1650	EN 13697	EN 14348		
Staphylococcus aureus	0.08		0.10			
Escherichia coli	0.08		0.08			
Pseudomonas aeruginosa	0.20		0.15			
Enterococcus hirae	0.05		0.03			
Candida albicans		0.15	0.10			
Aspergilus brasiliensis		0.30	0.25			
Mycobacterium avium				0.2		
Mycobacterium terrae ³				0.2		

Table 5: Effective concentrations² [%] of OPP with using European standard EN 1276, EN 1650, EN 13697 and EN 14348 under clean conditions.

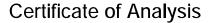
Tost ergenisms	Effective concentration [%]					
Test organisms	EN 1276	EN 1650	EN 13697	EN 14348		
Staphylococcus aureus	0.05		0.05			
Escherichia coli	0.05		0.05			
Pseudomonas aeruginosa	0.25		0.15			
Enterococcus hirae	0.03		0.05			
Candida albicans		0.05	0.08			
Aspergilus brasiliensis		0.15	>0.5			
Mycobacterium avium				0.1		
Mycobacterium terrae ³				0.1		

²: These results do not replace the evaluation of the efficacy of your own formulation. As the efficacy of a disinfectant formulation is dependent on different parameters, the efficacy of each formulation should be evaluated.

For information on EN standards, please refer to page 7.

LANXESS can provide technical support and independent efficacy testing to help develop optimized disinfectant formulations.

³: Mycobacterium terrae is the surrogate for Mycobacterium tuberculosis in national and international standards on testing of the efficacy of chemical disinfectants. Both species show similar resistance.





Company LANXESS Deutschland GmbH Kennedyplatz 1 50569 KÖLN

Material description PREVENTOL O EXTRA BAG 25KG

Customer order data

Delivery data

Delivery no. Delivered quantity 3017101720 / 000010 3.000,000 KG Batch **Delivered quantity** CHHYDZ0165 3.000,000 KG

01.10.2021 Date of manuf. 09.08.2021

Planned delivery date

Order no. 3032974373 / 000010 1XHN-594

Vehicle ID

Material

56811110

Best before 09.08.2023

A sample was taken according to procedure; the result of analysis was:

Inspection method/ Characteristic

Result

Unit

1) APPEARANCE

VISUAL

1=MEETS DESCRIPTION

2) Content

Gaschromatographic

o-Phenylphenol

99,9

56

1

3) Point of solidification Thermometric

Point of solidification

°C

%











Preventol O extra



Preventol[®]O extra **UN 3077**



Schuppen



Preventol O extra

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : PREVENTOL O EXTRA

Product code : 00430501

Substance name : 2-phenylphenol (ISO)

Index-No. : 604-020-00-6

EC-No. : 201-993-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Biocide for industrial application

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Supplier : LANXESS Distribution GmbH

51369 Leverkusen, Germany

Telephone : +4922188852288

Telefax : +492143055787

E-mail address of person responsible for the SDS

: infosds@lanxess.com

1.4 Emergency telephone number

+44 0870 190 6777. National Chemical Emergency Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single ex-

posure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

gory

Long-term (chronic) aquatic hazard, Cat-

egory 1

H410: Very toxic to aquatic life with long lasting

effects.

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
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according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version 1.0	Revision Date: 02.11.2018	SDS Number: 103000002517	Date of last issue: 26.11.2017 Country / Language: IE / EN(G	SB)
2-phe	enylphenol (ISO)	90-43-7 201-993-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Chronic: 1	>= 99

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No special measures required.

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod- :

ucts

Carbon dioxide (CO2)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Dust explosion class : St2

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must

comply with the technological safety standards.

Recommended storage tem-

perature

< 40 °C

Further information on stor- :

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

This information is not available.

Personal protective equipment

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Polychloroprene - CR

Wearing time : < 60 min

Material : Polyvinyl chloride - PVC

Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Wear suitable protective clothing.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Dust safety masks are recommended when the dust concen-

tration is more than 10 mg/m3.

Filter type : Recommended Filter type:

P2 filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : colourless

Odour : slight

Odour Threshold : No data available

pH : No data available

Melting point/range : 56.7 °C

Boiling point/boiling range : 286 °C

(1,013 hPa)

Flash point : 138 °C

Method: DIN 51758, closed cup

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Burning number : 2 (20 °C)

Method: VDI 2263-1

Upper explosion limit / Upper

flammability limit

Upper explosion limit

9.5 %(V)

Lower explosion limit / Lower

flammability limit

: Lower explosion limit

1.4 %(V)

Vapour pressure : 0.474 Pa (20 °C)

0.906 Pa (25 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.26 g/cm³ (20 °C)

Bulk density : 670 kg/m³

Solubility(ies)

Water solubility : 0.5 - 0.6 g/l

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : 515 °C

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

9.2 Other information

Dust explosion class : St2

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Avoid the creation of dust when handling and avoid all possi-

ble sources of ignition (spark or flame).

Take precautionary measures against static discharge. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment

before transferring material. Prevent dust accumulation.

In the case of dusty organic products the possibility of a dust

explosion should always be considered.

10.5 Incompatible materials

Materials to avoid : No specific data.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

2-phenylphenol (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 2,733 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC0 (Rat, male and female): > 0.036 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Skin corrosion/irritation

Components:

2-phenylphenol (ISO):

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

2-phenylphenol (ISO):

Species: Rabbit

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

2-phenylphenol (ISO):

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

GLP: no

Germ cell mutagenicity

Components:

2-phenylphenol (ISO):

Genotoxicity in vitro : Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

Method: OECD Test Guideline 473

Result: negative

GLP: no

Genotoxicity in vivo : Species: Mouse (male)

Application Route: Oral

Result: negative

Test Type: Micronucleus test

Species: Rat (male) Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Components:

2-phenylphenol (ISO):

Species: Rat, (male) Application Route: Oral Exposure time: 2 Years

NOAEL: 200 mg/kg body weight Method: OECD Test Guideline 453

Result: negative GLP: yes

Species: Rat, (female) Application Route: Oral Exposure time: 2 Years

NOAEL: >= 647 mg/kg body weight Method: OECD Test Guideline 453

Result: negative GLP: yes

Reproductive toxicity

Components:

2-phenylphenol (ISO):

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Duration of Single Treatment: 175 d

Fertility: NOAEL: >= 500 mg/kg body weight

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic develop-

ment were detected.

GLP: yes

Effects on foetal develop-

ment

Species: Rat

Application Route: Oral

Duration of Single Treatment: 28 d

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

Developmental Toxicity: NOAEL: 250 mg/kg body weight

Method: OECD Test Guideline 414

STOT - single exposure

Components:

2-phenylphenol (ISO):

Assessment: May cause respiratory irritation.

Repeated dose toxicity

Components:

2-phenylphenol (ISO):

Species: Rat, male LOAEL: 200 mg/kg Application Route: Oral Exposure time: 2 yr

Method: OECD Test Guideline 453

GLP: yes

Remarks: Chronic toxicity

Species: Rat, female LOAEL: 647 mg/kg Application Route: Oral Exposure time: 2 yr

Method: OECD Test Guideline 453

GLP: yes

Remarks: Chronic toxicity

Species: Rat, male and female NOAEL: >= 1,000 mg/kg Application Route: Dermal Exposure time: 21 d

Method: OECD Test Guideline 410

GLP: yes

Remarks: Subacute toxicity

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-phenylphenol (ISO):

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 Date of last issue: 26.11.2017
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Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4.5 mg/l

Exposure time: 96 h

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.7 mg/l

Exposure time: 48 h Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 3.57

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.468

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.036 mg/l Exposure time: 21 d

Species: Pimephales promelas (fathead minnow)

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.009 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

GLP: yes

Remarks: Fresh water

M-Factor (Long-term (chron- :

ic) aquatic hazard)

: 1

12.2 Persistence and degradability

Components:

2-phenylphenol (ISO):

Biodegradability : Test Type: aerobic

Result: Readily biodegradable. Biodegradation: 70.8 - 75.7 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017 103000002517 1.0 02.11.2018 Country / Language: IE / EN(GB)

12.3 Bioaccumulative potential

Components:

2-phenylphenol (ISO):

Bioaccumulation Bioconcentration factor (BCF): 22

Partition coefficient: n-

log Pow: 3.18

octanol/water Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

2-phenylphenol (ISO):

Distribution among environ-

mental compartments

: log Koc: 2.4 - 2.6

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

SECTION 14: Transport information

14.1 UN number

ADN : UN 3077
ADR : UN 3077
RID : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(2-HYDROXYBIPHENYL)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(2-HYDROXYBIPHENYL)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(2-HYDROXYBIPHENYL)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(2-HYDROXYBIPHENYL)

IATA : Environmentally hazardous substance, solid, n.o.s.

(2-HYDROXYBIPHENYL)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9



according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Date of last issue: 26.11.2017 Version Revision Date: SDS Number: 1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

ADR

Packing group Ш Classification Code M7 Hazard Identification Number : 90 9

Labels



RID

Packing group Ш Classification Code M7 Hazard Identification Number : 90 Labels 9



IMDG

Packing group Ш Labels 9



IATA (Cargo)

Packing instruction (cargo 956: 400.00 KG

aircraft)

Packing group Ш Labels 9



IATA (Passenger)

Packing instruction (passen- : 956: 400.00 KG

ger aircraft)

Packing group Ш Labels 9



14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

ADN

Environmentally hazardous : yes

¥2

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

¥2

IATA (Passenger)

Environmentally hazardous : yes

yes ¥2

IATA (Cargo)

Environmentally hazardous : yes

yes Y

14.6 Special precautions for user / Additional advice

Hazard statements : Environmentally hazardous substance.

Irritating to skin and mucous membranes.

Irritating to the eyes.

Keep separated from foodstuffs.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 103000002517 Country / Language: IE / EN(GB)

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Council Regulation (EC) No 111/2005 laying down rules :

for the monitoring of trade between the Community and

third countries in drug precursors.

Neither banned nor restricted

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

major-accident nazarus involving dangerous substances.

ENVIRONMENTAL

HAZARDS

Quantity 1 Quantity 2

100 t 200 t

15.2 Chemical safety assessment

not applicable

E1

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.

H319 : Causes serious eye irritation. H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure

according to Regulation (EC) No. 1907/2006



PREVENTOL O EXTRA

Version Revision Date: SDS Number: Date of last issue: 26.11.2017
1.0 02.11.2018 Date of last issue: 26.11.2017
Country / Language: IE / EN(GB)

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACh)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.





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